

B0213WO seq list.ST25.txt
SEQUENCE LISTING

<110> EXONHIT THERAPEUTICALS

<120> PROSTATE SPECIFIC GENES AND THE USE THEREOF AS TARGETS FOR PROSTATE CANCER THERAPY AND DIAGNOSIS

<130> B0213WO

<160> 185

<170> PatentIn version 3.1

<210> 1

<211> 151

<212> DNA

<213> Homo sapiens

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<212> DNA

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tccaggagaa agtggaaatct ttggaacagg aagcagccaa cgagagacag cagctgggtg	360
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<212> DNA

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<212> DNA

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<213> Homo sapiens

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<211> 168

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 277

<212> DNA

<213> Homo sapiens

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ccctgagacc aactttcatt ttacagatga aaaaactgag accggtaggg gtaaaatgcc	180
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gagcttgact ggggctcctc ttaccacttc ctcctcg	277

<210> 9

<211> 441

<212> DNA

<213> Homo sapiens

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acaaaaacaa gaaaggagag agttggctaa gctttatcac ctttgtgggt ttggaaccct	240
tacttgatcc ttcactaaag tacttcttgg gcatccagtg aggttcagtg tgtattgaga	300
ggatggtgag gatggcagcc aggcgtggga tctgtattca agaagaagct gccccactcg	360
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<210> 10

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<212> DNA

<213> Homo sapiens

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gtgcggatgg ggaaacaagg catgggctgg ggatgactta aggggtataa aatgttgggc	360
tttcttttgt caagcccagc atgtgcctcc tataggcacc agtggctctc gcaagtcctg	420
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<212> DNA

<213> Homo sapiens

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<211> 248

<212> DNA

<213> Homo sapiens

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caggtcctgg accggatcaa aggctcactg ctgccccggc ctggccacaa ctttgtgcgg	180
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<211> 183

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 132

<212> DNA

<213> Homo sapiens

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<211> 124

<212> DNA

<213> Homo sapiens

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tgag

124

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<211> 489

<212> DNA

<213> Homo sapiens

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<211> 244

<212> DNA

<213> Homo sapiens

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 ataagggatga gcaaagctgc caggcccaca ggagagagag cccacaggag ccctggatcc 180
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<210> 19

<211> 195

<212> DNA

<213> Homo sapiens

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 aagagtgggtg gccta 195

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 <212> DNA
 <213> Homo sapiens

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 tgtgataaga gtttataatc ctatatagag acagatgtat taaaatggat tttttttttt 240
 tgagacagag tcttactctg tcatcaaagc tggagtgcag tgggtgcaatc taggctcaca 300
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<210> 21
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 <212> DNA
 <213> Homo sapiens

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B0213WO seq list.ST25.txt

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<211> 199

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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gcgcaaccga ccatactgat gactgttttg aatgttcctt tgtctctgac atgatccata 240
gtgaaattgc cagagttt 258

<210> 25

B0213W0 seq list.ST25.txt

<211> 171

<212> DNA

<213> Homo sapiens

<400> 25

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agttgaaaag gtcaaacgct ggggacttgg taggaaaagg tggagactcc a 171

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<211> 223

<212> DNA

<213> Homo sapiens

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gcccaagcaa ggacgacgac actgtgtggc tcacctactg ggtgggtgtac gccctgtttg 180
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<210> 27

<211> 249

<212> DNA

<213> Homo sapiens

<400> 27

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tacagtgcct tctagctgtg gtagtctgtg tctccaagga ccaacccttc catttctgag 180
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<210> 28

<211> 334

<212> DNA

B0213W0 seq list.ST25.txt

<213> Homo sapiens

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<210> 29

<211> 226

<212> DNA

<213> Homo sapiens

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<211> 372

<212> DNA

<213> Homo sapiens

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 tgtggcctca caggtttggt tgtaccataa cttatattag gctcctgggtc aaggaatatg 180
 aaataaaata tccctcttgc tttaacc 207

<210> 32
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 32
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<210> 33
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 33
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<210> 34

<211> 443

<212> DNA

<213> Homo sapiens

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 cagggcacac agacctcgcc gca 443

<210> 35

<211> 272

<212> DNA

<213> Homo sapiens

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 tcaaccacca atagaagccc attgaagctc cagaagaaga gacaaggcac ttggatggca 240
 cctataaaga agaggatcca ctccttcctt ac 272

<210> 36

<211> 224

<212> DNA

<213> Homo sapiens

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 gatcagctgt gaaaaactct ttggatgatt ctgccaaaaa ggtacttctg gaaaaatata 180
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<211> 342

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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 cagacactcc ttaggaccag ggacacattc cccgagctgc caggagtgtt agcagctgac 240
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<210> 39

B0213W0 seq list.ST25.txt

<211> 127

<212> DNA

<213> Homo sapiens

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<211> 408

<212> DNA

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<400> 40

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<212> DNA

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<213> Homo sapiens

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<211> 3094

<212> DNA

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<400> 76

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<210> 77

<211> 3024

<212> DNA

<213> Homo sapiens

<400> 77

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<212> DNA

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<400> 78

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<211> 997

<212> DNA

<213> Homo sapiens

<400> 79

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<210> 83

<211> 258

<212> DNA

<213> Homo sapiens

<400> 83

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<210> 84

<211> 2226

<212> DNA

<213> Homo sapiens

<400> 84

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cctggcggcg aatgccatcc ccaaaggctt catggacggg aagcaggcct gcatttctcat 180
gatcaaagcc ctggaacttg accccaactt atacaggata gggcagagca aaatcttctt 240
ccgaactggc gtc 253

<210> 108
<211> 448
<212> DNA
<213> Homo sapiens

<400> 108
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ccgcgtgagg gcaagcgccg ctatatatttc gcggaaagcc cgttcggtccg cgcgtgtcca 180
tcttgaggta ccaccgccgg actgccggcg cttggtgcag gacgtgatcg tcatgcgctc 240
ggcgcgagct tcgatctgcc gttcaatgat gccgagatga cggcttgtct cgagaagtgc 300
atcttccatg cgcaggagta aggccgattg aggcgtgagc gacatcagaa tgccctccat 360
ggcctgaccc ataacgcttc tcaatcacta gtgcggccgc ctgcaggctc accatatggg 420
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B0213WO seq list.ST25.txt

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 <212> DNA
 <213> Homo sapiens

<400> 109
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 catcttaata atcccatccc tatctaata taggcacaat tcttagctgg ccccatgac 180
 tccaatcctt ggtgttacat cctgtataat attctttcct tgagtgtggg tgggacctgt 240
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 tctctgctgg ccctgaagta gcagctatgt tgtgaacagc caatggagaa agccatatgg 360
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 aggaaatgaa ttctgcc 437

<210> 110
 <211> 244
 <212> DNA
 <213> Homo sapiens

<400> 110
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 tccaagggtgt cttcagcggg attccaaaga agtttgtctc ctcggagggt aacggttctc 180
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 caga 244

<210> 111
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 111

B0213WO seq list.ST25.txt

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 agaagtacag caccatgttg gcaagtcggg agtagcacca atgcccgtga agaatcaaga 180
 gcctctccag gtatcggaat ttcggcactg caaagtcgct ggccatcact gccttcaaag 240
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<210> 112

<211> 413

<212> DNA

<213> Homo sapiens

<400> 112

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 taggtttaac tcggagttag aattctgggt ttgtttctca cttagggaaa aaaaatagct 180
 ttgtaaaggg aggttactaa ataaaacttt gagaactcta ttcaccctca caggatgact 240
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 agaaggcatt tgaaaggaat tcttaccgaa cattaacctg ctttggtaac cacagaaggc 360
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<210> 113

<211> 541

<212> DNA

<213> Homo sapiens

<400> 113

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 cacgtccacc accacgcatt tgacctcagg ggtccgggag atcatgaggg tgccttggg 360
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B0213WO seq list.ST25.txt

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<210> 114

<211> 226

<212> DNA

<213> Homo sapiens

<400> 114
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aaggggttca aacccccacct cagtaggtgg aggggagcgc ctgccattgg ttgtattttt 180
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<210> 115

<211> 439

<212> DNA

<213> Homo sapiens

<400> 115
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agtccgcca aaaaaccagt tatgacaaac aacctgacat tgggagacaa gtcgctgcac 360
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acgcgttggg tgcatagct 439

<210> 116

<211> 175

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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 aactaggttt ccctactcac ttctcaaaa agagtgatgt aggtccacgt gtacc 175

<210> 117

<211> 521

<212> DNA

<213> Homo sapiens

<400> 117
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 ggaaggagct tcaggtgagc actgctcatg tgtggatgcc cctgcaacag gcttccctgt 180
 ctgtagagcc aggggtgcaa gtgccatcca cacttgcatg gaatggcttt tccttttagg 240
 ttttaagtcct gtctgtctgt aaggcgtaga atctgtccgt ctgtaaggcg tagaatgagg 300
 gttgttaatc catcacaagc aaaaggctag aacagttaaa cactgccttt cctcctcctc 360
 ttattttatg ataaaagcaa atgtggcctt ctcagtatca ttcgattgct atttgagact 420
 tttaaattaa ggtaaaggct gctggtgttg gtacctgtgg atttttctat actgatgttt 480
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<210> 118

<211> 131

<212> DNA

<213> Homo sapiens

<400> 118
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<210> 119

<211> 212

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

<400> 119

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gcccgactga tccacgacag gaacaccgcg tcccacaccg cggcggcagc caggacccaa 180
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<210> 120

<211> 137

<212> DNA

<213> Homo sapiens

<400> 120

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aggcaatcca cccaacc 137

<210> 121

<211> 265

<212> DNA

<213> Homo sapiens

<400> 121

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aaaatgtgtt cttaaaatgc aatactatct cgaggcagtt taaattctaa caataggagc 180
ctacatacca gatggctttg aaatatttac aggtcctctt tgcctgaatt tttagttatc 240
caggaacaac cattataact tatac 265

<210> 122

<211> 285

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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atgcttgga ctggatggaa agactttgga gcagctgtgg ggggtggggg gacaccgaca 180
accaaacaga cgtgctggct ccagtcctgt ttttactttc aaaaaccaac aagcccgaca 240
gtggagcctg tcccctcccg ggagggtgct catggcccca ctcac 285

<210> 123
<211> 269
<212> DNA
<213> Homo sapiens

<400> 123
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gaggagatga ctctaattgt tcaatatatt tcatggtact taatttatgt ggcggggata 180
acgcttctca atcactagtg cggccgcctg caggctcgacc atatgggaga gctcccaacg 240
cgttggatgc atagcttgag tattctata 269

<210> 124
<211> 203
<212> DNA
<213> Homo sapiens

<400> 124
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ccagcagtgt gtgttctcca aagaccacag acaggcgctt gaagggcaca ttcatgccgc 120
ggtgcgggcg gaaaccgcag gctgtgctga ccagctcaga gatggcactg gctgcctgct 180
catcattctc caggctccacc cga 203

<210> 125
<211> 239
<212> DNA
<213> Homo sapiens

B0213WO seq list.ST25.txt

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 tcccgggagc tgcgagcatt caggtagctg aggttagcggc cggggcattt ttccacgcag 180
 atctggggag cgggacattg gaattccagc agaaccaggg ggctggcaca tttcacaat 239

<210> 126

<211> 461

<212> DNA

<213> Homo sapiens

<400> 126
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 cccctagcct ctgcgaccac cccacgcccc ccaaccgcaa gagtcggcga cccaagggtgg 180
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 caagccttag tatactcaac ccaactacca gcgtcggttt cgggtacggg caacaccacc 300
 actcgcttag aggcctttct cgacagcaca ggatcaccac catcaccaca aacgtggcta 360
 cgcatacgc ctcctctgca taacgcttct caatcactag tgcggccgcc tgcaggctga 420
 ccatatggga gagctcccaa cgcgttggat gcatagcttg a 461

<210> 127

<211> 284

<212> DNA

<213> Homo sapiens

<400> 127
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 agtgccctca gctggaactg tttagcggac agaagacgta catgcttcag gaagacatcc 180
 aggtcggtag cataacgctt ctaatcacta gtgcggccgc ctgcaggctc accatatggg 240
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<210> 128

B0213WO seq list.ST25.txt

<211> 252
 <212> DNA
 <213> Homo sapiens

<400> 128
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 acttctacca ccttaaagtc tacacccaaa acaacaagtg tttcacagaa cacatctcag 120
 atatcaacat ccacaatgac cgtaaccac aatagttcag tgacatctgc tgcttcatca 180
 gtaacaatca caacaactat gcattctgaa gcaaagaaag gatcaaaatt tgatactggg 240
 agctttgttg gt 252

<210> 129
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (380)..(380)
 <223> n = a t c o r g

<400> 129
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 gcagcataaa gccagttgc tttgggaagt gtttgggacc agatggattg ttgggagtag 180
 ggtacaatac agtctggtct cctccagctc cttctttctg caacatgggg aagaacaaac 240
 tccttcatcc aagtctggtt cttctcctct tggtcctcct cgctataacg cttctcaatc 300
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 gcttgagtat tctatagtgn tc 382

<210> 130
 <211> 305
 <212> DNA

<213> Homo sapiens

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 cggagaattt cccagaggtc ttcgccttgt gccacagctt ttccagcctg gggcatcca 180
 gcccgcttc ctgggtgcc ctgagagagt tgctggtcac ctgccgagcg tccttctttc 240
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 ccccc 305

<210> 131

<211> 337

<212> DNA

<213> Homo sapiens

<400> 131
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 gacagccagc tctcatttaa gaatctcaga acttggagg aaggaggaaa tccacattaa 180
 attctagggc ccaacagaca gagtgtcttc attgccaccc ccagtagtgg ggactacagt 240
 gcacctgtag tcccagtaga tgctctgaca tcacagagct tcctgctcta ccagcccacc 300
 tcatgcatgt caccaccata actatagcct gcaagtc 337

<210> 132

<211> 174

<212> DNA

<213> Homo sapiens

<400> 132
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 aagagactaa acaagaaagt ggatcagga agaagaaagc ttcataaag aaacaaaaga 120
 cagaaaatgt cttcgtatag gaaccctta ttcgtgcaac tacttatatt cctc 174

<210> 133

<211> 113

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

<400> 133

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taatcacgat gcaaattccag ttaaagagga gcatgaataa atagtctgct ggc 113

<210> 134

<211> 191

<212> DNA

<213> Homo sapiens

<400> 134

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ctagaatgaa ccagtcttac tatgtatcta taaccttgcc tttatctcta ttctaatatg 180

gtaatctggt a 191

<210> 135

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 135

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gaacgtcctc atcaccggcg gcgggagagg catcgggcgt cagctcgccc gcgagttcgc 300

ggagcgcggc gccagaaaga ttgttctctg gggccggact gagaaatgcc tgaaggagac 360

gacggaggag atccggcaga tgggcactga gtgccattac ttcattctgt atgtgggcaa 420

ccgggaggag gtgtaccaga cggccaaggc cgtccgggag aagggtgggtg acatcaccat 480

cctggtgaac aatgccgccg tgggtccatgg gaagagccta atggacagt atgatgatgc 540

cctcctcaag tcccaacaca tcaacaccct gggccagttc tggaccacca aggccttcct 600

B0213WO seq list.ST25.txt

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<210> 136

<211> 344

<212> DNA

<213> Homo sapiens

<400> 136

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tctatctggt ggtgaaagca gccgtcggac tgggtgtgcc cgccaagctg cgggacctgt	180
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agttcgcgga gcgcggcgcc agaattgatt ttctctgggg ccggactgag aaatgcctga	300
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<210> 137

<211> 1088

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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acctttgcac aggactgatg ggtataactg acccccacag ggaggcagga aaacagccag 1080
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<210> 138

<211> 399

<212> DNA

<213> Homo sapiens

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<400> 138
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cttggccgtc tggtagacct cctcccgggt gccacatca cagatgaagt aatggcactc 180
agtgccatc tgccgatct cctccgtcgt ctccctcagg catttctcag tccggcccca 240
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B0213WO seq list.ST25.txt

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<210> 139

<211> 745

<212> DNA

<213> Homo sapiens

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<211> 1326

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 219

<212> DNA

<213> Homo sapiens

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<211> 351

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<211> 292

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<213> Homo sapiens

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tataaaagaa tcagtgcata tctgttaatg tcattgacaa taaaatata ttatcttctc 240
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<211> 447

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<213> Homo sapiens

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<211> 239

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 aatggtaaac tttagaggac gctaaagcct cactaaaata acgcttctca atcactagtg 180
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<211> 410

<212> DNA

<213> Homo sapiens

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<211> 327

<212> DNA

<213> Homo sapiens

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<210> 165

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<211> 351

<212> DNA

<213> Homo sapiens

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<210> 166

<211> 4839

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 168

<211> 355

<212> DNA

<213> Homo sapiens

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<210> 170

<211> 310

<212> DNA

<213> Homo sapiens

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<210> 171

<211> 301

<212> DNA

<213> Homo sapiens

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<212> DNA

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<210> 174

<211> 462

<212> PRT

<213> Homo sapiens

<400> 174

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 20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
 35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
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Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
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115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
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370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu
435 440 445

Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
450 455 460

<210> 175

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 175

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tttgccaaat ccttgaccat tcgacttatt agatgcggct atcatgtggt cataggaagt	180
agaaatccta agtttgcttc tgaatttttt cctcatgtgg tagatgtcac tcatcatgaa	240
gatgctctca caaaaacaaa tataatattt gttgctatac acagagaaca ttatacctcc	300
ctgtgggacc tgagacatct gcttgtgggt aaaatcctga ttgatgtgag caataacatg	360
aggataaacc agtaccacaga atccaatgct gaatatattg cttcattatt cccagattct	420
ttgattgtca aaggatttaa tgttgtctca gcttgggcac ttcagttagg acctaggaat	480
gccagccggc aggtttatat atgcagcaac aatattcaag cgcgacaaca gggtattgaa	540

B0213WO seq list.ST25.txt

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gcagataccc agactgagct ggaactggaa tttgtcttcc tattgactct acttctttaa 1260
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<210> 176

<211> 419

<212> PRT

<213> Homo sapiens

<400> 176

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
1 5 10 15

Phe Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

B0213WO seq list.ST25.txt

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Asp Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
325 330 335

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu
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340

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ile Phe Cys Ser Phe
385 390 395 400

Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe Val Phe Leu Leu Thr
405 410 415

Leu Leu Leu

<210> 177

<211> 940

<212> DNA

<213> Homo sapiens

<400> 177

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gattggaagt ggagattttg ccaaactcctt gaccattcga cttattagat gcggctatca	180
tgtgggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga	240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtt ctatacacag	300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga	360
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gttaggacct aaggatgcca gccggcaggt ttatatatgc agcaacaata ttcaagcgcg	540
acaacagggt catgcaaata ttgaaaactc ttggaatgag gaagaagttt ggagaattga	600
aatgtatatc tcctttggca taatgagcct tggcttactt tccctcctgg cagtcacttc	660
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gccctcaatt gtaattctgg tagagacgga gtttcaccgt gttagccagg atggtctcga	900

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940

<210> 178

<211> 299

<212> PRT

<213> Homo sapiens

<400> 178

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
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20 25 30Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Glu Val Trp
180 185 190

B0213WO seq list.ST25.txt

Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu
195 200 205

Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn
210 215 220

Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu
225 230 235 240

Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala Phe
245 250 255

Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe Val Leu Ala
260 265 270

Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu Phe His Arg
275 280 285

Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
290 295

<210> 179

<211> 1388

<212> DNA

<213> Homo sapiens

<400> 179
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gattggaagt ggagattttg ccaaattcctt gaccattcga cttattagat gcggctatca 180
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga 240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtg ctatacacag 300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggtctc 420
attattccca gattctttga ttgtcaaagg atttaatggt gtctcagctt gggcacttca 480
gttaggacct aaggatgcca gccggcaggt ttatatatgc agcaacaata ttcaagcgcg 540
acaacagggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt 600
atcatcagcc agagagattg aaaatttacc cctacgactc tttactctct ggagagggcc 660
agtgggtgga gctataagct tggccacatt tttttccttt attcctttgt cagagatgtg 720

B0213WO seq list.ST25.txt

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gaaacctggt tacagtgtag aaaacagctt ggattactaa gttttttctt cgctatggtc 960
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atgttttaat ttatggatgg aaacgagctt ttgaggaaga gtactacaga ttttatacac 1260
caccaaactt tgttcttgct cttgttttgc cctcaattgt aattctggta gagacggagt 1320
ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccgcc cgccttggcc 1380
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<210> 180

<211> 234

<212> PRT

<213> Homo sapiens

<400> 180

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr
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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile

100

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125
Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140
Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160
Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175
Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190
Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205
Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220
Phe Phe Ser Phe Ile Pro Leu Ser Glu Met
225 230

<210> 181
<211> 1425
<212> DNA
<213> Homo sapiens

<400> 181
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aacttgttta cctaattggca taaatggtat caaagatgca aggaagggtca ctgtagggtgt 120
gattggaagt ggagattttg ccaaattcctt gaccattcga cttattagat gcggctatca 180
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaä ttttttcctc atgtggtaga 240
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agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggttc 420
attattccca gattctttga ttgtcaaagg atttaatggt gtctcagctt gggcacttca 480
gttaggacct aaggatgccä gccggcaggt ttatatatgc agcaacaata ttcaagcgcg 540

B0213WO seq list.ST25.txt

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agtggtggtta gctataagct tggccacatt ttttttcctt tattcctttg tcagagatgt 720
gattcatcca tatgctagaa accaacagag tgactttttac aaaattccta tagagattgt 780
gaataaaacc ttacctatag ttgccattac tttgctctcc ctagtatacc ttgcagggtct 840
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<210> 182

<211> 461

<212> PRT

<213> Homo sapiens

<400> 182

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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu
65 70 75 80

B0213WO seq list.ST25.txt

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln
290 295 300

Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val His Val Ala Tyr Ser
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Glu Thr Glu Phe
435 440 445

His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser
450 455 460

<210> 183

<211> 18

<212> PRT

<213> Homo sapiens

<400> 183

Val Glu Thr Glu Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu
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Thr Ser

<210> 184

<211> 24

<212> PRT

<213> Homo sapiens

B0213WO seq list.ST25.txt

<400> 184

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Val Phe Leu Leu Thr Leu Leu Leu
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<210> 185

<211> 8

<212> PRT

<213> Homo sapiens

<400> 185

Ser Phe Ile Pro Leu Ser Glu Met
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